



This list of Open House exhibits is as complete as scheduling permitted. However, some additional displays may be found in various buildings. For the location of buildings listed here, consult the campus map in the Engineering Open House program.

AERONAUTICAL ENGINEERING

In Aero Lab B

Windmill Generator
1-D Nozzle
Wing Stress Measurement
Solar Energy
History of Aviation and Space Travel
Ripple Tank Demonstration
Ramjet
Shadowgraph
Aerodynamic Phenomena

In the Woodshop

MHD Exhibit
PLATO Display
Analog Simulations
Paper Airplanes

AGRICULTURAL ENGINEERING

In the Agricultural Engineering Building and Lab

Model Oxidation Ditch
Nitrate Reduction
Silica Gel Grain Dryer
Hail Damage to Siding Material
Soil Bin Demonstration

Anaerobic Digestion of Swine Manure
Drying Front-through Corn
Model Channel and Weir
Soybean Damage and Detection
Fiber Reinforced Concrete
A Micro Unit -- Soybean Seed Storage
Pneumatic Conveying
How a Cow Eats
Energy Absorbtion of a Soybean
Soybean - Banana Candy Bar
Microwave Oven and Popcorn
Ventilating System using PVC Pipe
Energy Efficient Model Farm
Water Flow in Permeable Media
Plastic Drain Tile Finder
Temperature Study of Plastic Drain Tile
WANG Computer -- Drainage Ditch Cross-sections
Noise of Axial Flow Fans
Dual Tracer Technique for Measuring Spray Drift
Improved Soybean Header
Vibratory Tillage Tests in Soil Bin
Development of Concrete Wall Panel System

BIOENGINEERING

In 129 Talbot Lab

Biofluids -- Pressure Transients

In the Ceramics Building

Hip Prostheses Display
Microradiographs of Simulated Bone

In Engineering Hall

Radiobiology
General Bioengineering Display

In the Mechanical Engineering Building

Microstructure of Dental Enamel
Nerve Cross-sections and Waveforms
ECG of a Live Frog
Engineering Aspects of Hospital Equipment

In the Materials Research Lab

Piezoelectric Properties of Fissures

CERAMIC ENGINEERING

In the Ceramics Building

Porcelain Enameling, Room 101
Strength Demonstration, Room 103
Differential Thermal Analysis, Room 111
Refractories, Room 112
Phase Transformation, Room 113

Electrical Ceramics, Room 113
Bioceramics, Room 113
Glass, Room 113
Nuclear Ceramics, Room 115

In the Kiln House

Glass Pouring
Pyrometry

CHEMICAL ENGINEERING

In Roger Adams Lab

Distillation Column, Room 8
Chem-Pop, Room 8
Rotary Filter, Room 8
Fluidized Bed, Room 8
Activated Sludge, Room 8
Bipolar Porous Electrodes, Room 10
Electrochemical Removal of Heavy Ions, Room 10
Alkylation Unit
Various Films, Room 116
Liquid Level Controller, Room 201
PLATO Terminal
Chemistry Magic Show, Room 116
(12 NOON FRIDAY ONLY)

In Room 294

Hollow Fiber Membrane
Electrostatic Precipitator
Chem-cow
Chemical Kinetics
Sulphur Dioxide Scrubber
Aerosols Generation and Deposition
Free Energy in Reactor Design
Crystal Growth Cooling Rates
Partial Molar Viscosity
Multi-component Equilibria
Absorbtion in a Packed Tower

CIVIL ENGINEERING

In the Civil Engineering Building

Environmental Exhibits
Transportation
MTS Machine
Tunnel Project
3-D Aerial Photography
Quicksand
Soils Exhibit
Construction Problems on a Computer
Sanitary Engineering Exhibit

COMPUTER SCIENCE

In the Digital Computer Lab

NIM Game on PLØRTS, Lobby
Blackjack on PLØRTS, Lobby
IQ Test on PLØRTS, Lobby
Poker on PLØRTS, Lobby
Computer that Answers General English Questions, Basement
Character Printer

MAR 29 1974

Number Guessing Game, Room 23
Hardware Version of Craps, Room 23

Reaction Timer, Room 23
PDP-8 Games, Room 31
Character Display, Room 115
Talking, Drawing PDP-11 Computer, Room 123
Live IBM-360 Tour, Room 194

In the Advanced Computation Building

Terminal on ARPANET
Graphics Center

ELECTRICAL ENGINEERING

On Burrill Avenue

Hybrid Electric Urban Vehicle
Magnetic Cannon

In the Electrical Engineering Building

Control System Research Lab, Room 50L

Hybrid Circuits Lab, Room 132
Microelectronics Lab, Room 133
Minicomputer Display, Room 134
Analog-to-Digital Signal Conversions, Room 134
Infrared Laser, Room 136
Good Vibes Stereo, Room 141
Society of Women Engineers -- "It's a Women-made World Too," Room 160

Electronic Racquetball, Room 161
POL-ART, Room 162
Kirlian Photography, Room 163
Biomedical Instrumentation, Room 163

Computer Chess Game, Room 165
Eye Monitor -- "Follow the Bouncing Ball," Room 168

Mouse in a Maze, Room 169
Electrostatics, Room 170
Microwave Lab, Room 238

Electronics Projects Lab, Room 246

Computer Guided Experiments Lab, Room 248

Live Weather Satellite Pictures, Room 251

Time Multiplex System, Room 251
Synton Radio Amateur Club Room 251

Antigravity Servomechanism, Room 254

Magnetic Skillet and Coffee Can Motor, Room 254

Flame Speaker, Room 257

Jacob's Ladder and Tesla Coil, Room 269

Quantum Electronics Lab, Room 267

Ozzie, the Smiling Face, First Floor Hall

GENERAL ENGINEERING

In the Transportation Building

Design Projects, Room 113
Plotter, Room 400A
Engineering History and Law, Room 202
Movies, Room 216
Analog Simulations, Room 406
Air Force Exhibit, Room 201

INDUSTRIAL ENGINEERING

In the Mechanical Engineering Building

Applications of Manufacturing Techniques, Room 217
Applied Statics, Room 217
Safety Engineering, Room 217
Ashtray Stamping, Room 217
Inertia Welding, Room 217
Computer Demonstrations, Room 221E

MECHANICAL ENGINEERING

In the Mechanical Engineering Building

IC Engine, Room 101
Fatigue Testing, Room 101
Skid Pad Exhibit, Room 110
Great Race, Room 135
Heat Pump, Room 143
Building Stability, Room 143
ASME Exhibit, Room 136
Dog and Flea, Room 143W
Creative Machine Design, Room 143E
Bioengineering, Room 153W

In the Mechanical Engineering Lab

Coal Dust Combustion
Vortex Tube
Nozzle Flow Visualization
Hydraulic Analogy

METALLURGICAL ENGINEERING

In the Metallurgy and Mining Building

Metallography, Front Hall
Strength of Materials, Front Hall
Passion Metal, Front Hall
Rolling Mill, Room 112
Metal Casting, Room 112

NUCLEAR ENGINEERING

In the Reactor Building

Nuclear Reactor Tour

In the Physics Building

Plasma Confinement, Room 151
Nuclear Engineering Films, Room 151

PHYSICS

On the Open House Bus Route

Superconducting Linear Accelerator (LINAC)

In the Physics Building

Spark Chamber
Spectrum and Absorption of Gamma and Beta Rays
Mössbauer Effect

Plasma Confinement with Magnetic Fields
Controlled Thermonuclear Fission Films

Holography Display and Laser Modulation

Schlieren Photography
Michelson Interferometer
Superconductivity
Magnetic Levitation

Introductory Physics Lectures
PLATO -- An Experiment in Teaching

Physics Lab Experiments
Metal Vapor Laser (Cd-He)

Computer Games -- Tic Tac Toe and Blackjack

Wideband Laser Modulation with Kerr Cell

Point Contact Transistor Display

THEORETICAL AND APPLIED MECHANICS

In Talbot Lab

Water Bell Demonstration, Room 126

Hydraulic Jump, Room 126
Supersonic Flow Analogy, Room 126

Air Tunnel, Room 126

White Light Holography, Room 225A

Materials Testing, Room 225
Fracture Behavior of Engineering Materials, Room 321
Dynamics Laboratory, Room 207
3,000,000 Pound Testing Machine